XP-002265614

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A - [001] 017 03- 06- 075 08& 086 10- 103 15& 17& 17- 18& 18- 19& 19- 20& 236 240 263 292 343 360 361 399 402 408 546 58- 689 720 723 726
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DC - A41 E16
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KS - 0030 0037 0055 0058 0061 0064 0067 0148 0151 0154 0166 0169 0206 0229 0939 2038 2041 2065 2178 2189 2192 2201 2206 2366 2385 2410
MC - A01-D06 E10-D03D
M3 - [01] H7 H713 H721 J0 J011 J3 J371 M210 M212 M273 M281 M320 M416 M720 M903 M904 N223 N242 N312 N421 N512 N513 Q110; R08072-P
PA - (MITU) MITSUBISHI KASEI CORP
PN - JP3314417B2 B2 20020812 DW200259 C07C233/03 006pp
- JP6122661 A 19940506 DW199423 C07C233/03 006pp
PR - JP19920251263 19920921
XA - C1994-084578
XIC - C07C-231/18 ; C07C-233/03
AB - J06122661 Prepn. of N-vinyl formamide (I) comprises adding oxide, hydroxide or carbonate of alkaline earth metal or crude (I). Process involves (1) distilling, adding inorganic acid to the distillate contg. (I) to give pH 4.5-8.5 when diluted with water (5 wt. times) and distilling again; and (2) distilling with a membrane evaporator, adding inorganic acid to the distillate contg. (I) to give pH 4.5-8.5 when diluted with water (5 wt. times), distilling with a membrane evaporator to recover, and refining with a tower.
- ADVANTAGE - Stable (I) is prepd. efficiently and used as a monomer.
- In an example, N-(alpha-hydroxyethyl)formamide (3kg), methanol (3.15kg) and sulphuric acid (25g) were reacted at 25-40 deg.C for 3 hrs. with stirring, then were distilled under 3 mmHg to give ether. The ether was fed at 2 g/min. into a stainless tube kept at 400 deg.C under 100 mmHg and the discharge gas was condensed immediately to carry out thermal decomposition. The distillate (2.3kg) (NVF 64%, methanol 31%) was recovered. pH value was 4.5 when it was diluted with water being 5 wt. times as much. The distillate added Ca oxide (2.9g) was kept at 10 deg.C for 1 hr. with stirring followed by removing insol. matter, then treating with membrane evaporator under 3 torr pressure, 125 deg.C vapour temp., 500 g/hr. a feeding amt. and 5 mins. of retention time to give (I). 1N H_2SO_4 in methanol (7 ml) was added to the recovered soln., and distn. treatment was carried out under the same conditions as above. The distillate consisted of 95% NVF, 4.5% formamide and 0.5% ether. The recovery of (I) was 96%.(Dwg.0/0)
CN - R08072-P
IW - PREPARATION FORMAMIDE MONOMER ADD OXIDE HYDROXIDE CARBONATE ALKALINE EARTH METAL CRUDE COMPOUND
IKW - PREPARATION FORMAMIDE MONOMER ADD OXIDE HYDROXIDE CARBONATE ALKALINE EARTH METAL CRUDE COMPOUND
NC - 001
OPD - 1992-09-21

ORD - 1994-05-06
PAW - (MITU) MITSUBISHI KASEI CORP
TI - Prepn of N=vinyl formamide used as monomer includes addn of oxide, hydroxide or carbonate of alkaline earth metal or crude cpd
A01 - [001] 017 ; R08072 G0022 D01 D12 D10 D51 D53 D58 D83 F70 ; H0271 ; L9999 L2471 ; L9999 L2200 ; L9999 L2095-R ; L9999 L2813 ;
- [002] 017 ; N9999 N6564 ; N9999 N6735-R N6655 ; ND03 ; N9999 N5709 ;
- [003] 017 ; D00 D67 F20 F21 F44 2A-R C- 4A O- 6A H- ; R01714 D00 D60 H- O- 6A S- ; R01503 D00 F20 Ca 2A O- 6A ; C999 C102 C000 ; C999 C259 ;